0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
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0-3	Name of receiving Office and "PCT	
	International Application"	
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0-4-1	Form PCT/RO/101 PCT Request	·
U <del>-4</del> -1	Prepared Using	PCT-SAFE
0-5	7.40	Version 3.50 (Build 0002.173)
0-5	Petition	
	The undersigned requests that the present international application be	
	processed according to the Patent	
	Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Korean Intellectual Property Office
•	1	(RO/KR)
0-7	Applicant's or agent's file reference	05FLWW114
<u> </u>	Title of Invention	CONDENSING APPARATUS OF DISH WASHER
11	Applicant	THE
II-1	This person is	applicant only
11-2	Applicant for	
11-4	Name	all designated States except US
11-5	Address	LG ELECTRONICS, INC.
		20, Yoido-Dong, Youngdungpo-ku
	1	Security-842
11-6	State of nationality	Republic of Korea
II-7	State of residence	KR
1-8	Telephone No.	KR
	Facsimile No.	82-2-526-4605
		82-2-578-0655
	e-mail	webmaster_e@lge.com
II-1	Applicant and/or inventor	
. 1	This person is	applicant and inventor
- 1	Applicant for	US only
1-1-4  I	Name (LAST, First)	KIM, Yong Hee
<b>-1-5</b>	Address	
		H-111, LG Life Office, Gaeumjeong-dong
		Changwon-si Greengen
		Changwon-si, Gyeongsangnam-do641-110 Republic of Korea
-1-6 S	State of policy state.	Changwon-si, Gyeongsangnam-do641-110 Republic of Korea KR

## PCT REQUEST

IV-1-6 V V-1	Agent or common representative; address for correspondence The person identified below is hereb has been appointed to act on behalf it the applicant(s) before the competent international Authorities as: Name (LAST, First) Address  Telephone No. Facsimile No. e-mail Agent's registration No.  DESIGNATIONS The filling of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the	HAW, Yong Noke 8th Fl. Songchon Bldg., 642-15, Yeoksam-dong, kangnam-ku Seoul135-080 Republic of Korea 82-2-2185-5151 82-2-2185-5159 mail@sunyoungpat.com 9-1998-000616-9
IV-1-2 IV-1-3 IV-1-4 IV-1-5 IV-1-6 V V-1	The person identified below is hereb has been appointed to act on behalf of the applicant(s) before the competent international Authorities as:  Name (LAST, First)  Address  Telephone No. Facsimile No. e-mail  Agent's registration No.  DESIGNATIONS  The filling of this request constitutes under Rule 4.9(a), the designation of all Contracting States housed books.	HAW, Yong Noke 8th Fl. Songchon Bldg., 642-15, Yeoksam-dong, kangnam-ku Seoull35-080 Republic of Korea 82-2-2185-5151 82-2-2185-5159 mail@sunyoungpat.com 9-1998-000616-9
IV-1-2 IV-1-3 IV-1-4 IV-1-5 IV-1-6 V V-1	Name (LAST, First) Address Telephone No. Facsimile No. e-mail Agent's registration No. DESIGNATIONS The filling of this request constitutes under Rule 4.9(a), the designation of all Contracting States house them.	8th F1. Songchon Bldg., 642-15, Yeoksam-dong, kangnam-ku Seoul135-080 Republic of Korea 82-2-2185-5151 82-2-2185-5159 mail@sunyoungpat.com 9-1998-000616-9
IV-1-2 IV-1-3 IV-1-4 IV-1-5 IV-1-6 V V-1	Address  Telephone No. Facsimile No. e-mail  Agent's registration No.  DESIGNATIONS  The filling of this request constitutes under Rule 4.9(a), the designation of all Contracting States housed to the second to th	8th F1. Songchon Bldg., 642-15, Yeoksam-dong, kangnam-ku Seoul135-080 Republic of Korea 82-2-2185-5151 82-2-2185-5159 mail@sunyoungpat.com 9-1998-000616-9
IV-1-3 IV-1-4 IV-1-5 IV-1-6 V	Telephone No. Facsimile No. e-mail Agent's registration No. DESIGNATIONS The filling of this request constitutes under Rule 4.9(a), the designation of all Contracting States house them.	8th F1. Songchon Bldg., 642-15, Yeoksam-dong, kangnam-ku Seoul135-080 Republic of Korea 82-2-2185-5151 82-2-2185-5159 mail@sunyoungpat.com 9-1998-000616-9
IV-1-4 IV-1-5 IV-1-6 V	Facsimile No. e-mail Agent's registration No. DESIGNATIONS The filling of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound have	82-2-2185-5151 82-2-2185-5159 mail@sunyoungpat.com 9-1998-000616-9
IV-1-5 IV-1-6 V	Facsimile No. e-mail Agent's registration No. DESIGNATIONS The filling of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound have	82-2-2185-5159 mail@sunyoungpat.com 9-1998-000616-9
IV-1-5 IV-1-6 V	e-mail Agent's registration No. DESIGNATIONS The filling of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the	82-2-2185-5159 mail@sunyoungpat.com 9-1998-000616-9
IV-1-6 V V-1	Agent's registration No.  DESIGNATIONS  The filling of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound to the constitute of the contraction	mail@sunyoungpat.com 9-1998-000616-9
V V-1	DESIGNATIONS The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the	9-1998-000616-9
V V-1	DESIGNATIONS The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the	
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the	
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i i	PCT on the International filing date, for the grant of every kind of	
j <sub>e</sub>	protection available and, where	
- [2	ipplicable for the grant of how	
	egional and national patents.	The second secon
V-2  H	tem V-2 may be used to exclude	
10	ITEVOCADIV) the designations	KR
٦	oncerned in order to avoid the	
.  6	easing of the effect, under the	
a	ational law, of an earlier national pplication from which priority is	
161	EIM80. As to the consequences	
St	JCN national law provisions in these	
į ar	10 Certain Other States each	
) Di	esignations in PCT-SAFE Help.	
VI-1 Pr	iority claim of earlier national	
VI-1-1 Fil	ing date	10.4.
VI-1-2 Nu	mber	12 October 2004 (12.10.2004)
VI-1-3 Co		10-2004-0081272
VI-2 Pri	ority document request	KR
The pre Bur	e receiving Office is requested to pare and transmit to the International eau a certified copy of the earlier illication(s) identified above as	VI-1
71-1 inte	rnational Searching Authority	ustrian Patent Office (ISA/AT)

#### **PCT REQUEST**

VIII	Declarations	Number of declarations	
VIIL	inventor	-	
VIII-2	entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	entitlement, as at the International filing date, to claim the priority of the earlier application		
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
IX .	Check flat	number of sheets	
X-1	Request (including declaration sheets)	4	electronic file(s) attached
X-2	Description	8	/
X-3	Claims	3	/
<b>K-4</b>	Abstract		
X-5	Drawings	1	/
K-7' '	TOTAL	4	
		20	
(-8	Accompanying Items	paper document(s) attached	electronic file(s) attached
	Fee calculation sheet	•	
-9	Original separate power of attorney	-	1
-11	Copy of general power of attorney	·	/
-17	PCT-SAFE physical media		/
-19	Figure of the drawings which should accompany the abstract	-	-
-20	Language of filing of the international application	Corean	
1	Signature of applicant, agent or common representative		
I-1	Name (LAST, First)		·
-2	Name of signatory		
	Capacity		

#### Print Out (Original in Electronic Form)

## FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/AT
0-6	Transmittal of search copy delayed until search fee is paid	LDA/ RI

## FOR INTERNATIONAL BUREAU USE ONLY

11-1 Date of receipt of the record copy by	
the International Bureau	
	· · · · · · · · · · · · · · · · · · ·

#### PCT POWER OF ATTORNEY

0-1	PCT Power of Attorney (for an international application filed under the Patent Cooperation Treaty) (PCT Rule 90.4)	
0-1-1	Prepared Using	PCT-SAFE
		Version 3.50 (Build 0002.173)
1	The undersigned applicant(s)	ETW Vone Ha
1-1-1	·	KIM, Yong Hee
1-1-1	hereby appoints (appoint) the following person	HAW, Yong Noke
	leneming betsou	8th Fl. Songchon Bldg., 642-15,
	· ·	Yeoksam-dong, kangnam-ku
		Seoul135-080
		Republic of Korea
1-2	as	
1-3	to concorout the and a dead and a	agent
. •	to represent the undersigned before	all the competent International
		Authorities
1-4	in connection with the international application identified below:	
4-1	Title of Invention	CONDENSING APPARATUS OF DISH WASHER
1-4-2	Applicant's or agent's file reference	05FLWW114
-4-3	International application number (if already available)	
4-4	filed with the following Office as receiving Office	Korean Intellectual Property Office (RO/KR)
-5	and to make or receive payments on behalf of the undersigned	

## PCT POWER OF ATTORNEY

2-1	Signature of applicant, agent common representative	or
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1 N	ame (LAST, First)	KIM, Yong Hee
2 Na 3 Ca	ame of signatory apacity	
	ipacity ite	
		06 October 2005 (06.10.2005)

PCT (ANNEX - FEE CALCULATION SHEET)

Print Out (Original in Electronic Form)

(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only	<del></del>	
0-1	International Application No.		
0-2	Date stamp of the receiving Office	<del></del>	
0-4	Form PCT/RO/101 (Annex)	<del></del>	
	PCT Fee Calculation Sheet		· .
0-4-1	Prepared Using .	PCT-SAFE	
0-9		Version 3.5	0 (Build 0002.173)
2	Applicant's or agent's file reference	05FLWW114	(52220 0002.173)
	Applicant	LG ELECTRON	ICS, INC.
12	Calculation of prescribed fees	fee amount/multiplie	
12-1		<b>D</b>	- (rarvy)
12-2-1	Search fee		45000
12-2-2	International search to be carried out by	=>	264000
12-3	International filing fee	AT	
	(first 30 sheets)	11260	0.0
12-4	Remaining sheets	0	<del></del>
12-5	Additional amount . (X	0	
12-6	Total additional amount   12	1.7	<del>_</del>
12-7	i1 + i2 =	11250	0
12-12	Electronic Filing reduction (Full) R	11260	1
12-13	Total International filing fee (i-R)	-25600	· · · · · · · · · · · · · · · · · · ·
12-14	Fee for priority document	₽	870000
	Number of priority documents requested	1	
-15	Fee per document (X)		<b>⊣</b>
-16	Total priority document fee: P	·	
-17	TOTAL FEES PAYABLE (T+S+H+P)		
		<> <	1179000
1.0	Mode of payment	cash	

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#### Paper Copy ( (NOT for submission)

13-2-1	Validation messages	
	Request	Green?
		A translation of the int'l application into (one: of) the following language(s) must be furnished within one month of the date of receipt by the receiving Office: German, English, French
	Validation messages Request	Green?
13-2-2		Please note that the entire request (including the title of invention) must be in English
10-2-2	Validation messages States	Green?
13-2-7		Please note that the following States have NOT been designated: KR.
13-2-7	Validation messages Contents	Green?
		Figure of the drawings which should accompany the abstract not specified. Please verify.
	Validation messages Contents	Green?
·		Reference number for attached copy of general power of attornover attached
13-2-8		indicated.
	Validation messages Fees	Green? Please verify that modified fee amounts are correct.

## PATENT COOPERATION TREAL 1

## **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 05FLWW114	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/KR 2005/003318	International filing date (day/month/year) 6 October 2005 (06.10.2005)	(Earliest) Priority Date (day/month)
Applicant		12 October 2004 (12.10.2004)
	LG ELECTRONICS INC.	
This international search report has been according to Article 18. A copy is being	prepared by this International Searching Aut transmitted to the International Bureau.	hority and is transmitted to the applicant
This international search report consists of	of a total of 5	
1. Basis of the renow	copy of each prior art document cited in this	
<ol> <li>With regard to the language, the in language in which it was filed, unle</li> </ol>	ternational search was carried out on the basi	s of the international application in the
to this Authority (I	earch was carried out on the basis of a transle Rule 23.1(b)).	ation of the international application furnished
and to any nucleotide	and/or amino acid sequence disclosed in th	e international application, see
	·	continuation of this first shoot
3. Unity of invention is lacking 4. With regard to the title,	unsearchable (see continuation of this first s g (see continuation of this first sheet)	theet)
the text is approved as submit		
the text has been established by	ned by the applicant.	
osabisiej (	by this Authority to read as follows:	
	•	
With regard to the abstract,		
the text is approved as submitte	ed by the applicant.	6
the fext has been established, ac sheet. The applicant may, within comments to this Authority.	ecording to Rule 38.2(b), by this Authority as n one month from the date of mailing of this	it appears in the continuation of this first international search report, submit
With regard to the drawings.		
a. the figure of the drawings to be	published with the abstract is Figure No. 3	
- an suggested by the applicant		· · · · · · · · · · · · · · · · · · ·
as selected by this Authority, bec	cause the applicant failed to suggest a figure.	<b>)</b>
belocited by mis Authority, bed	ause this figure better characterizes the	Rtion
b. In none of the figures is to be published		

#### INTERNA ONAL SEARCH REPORT

International application No. PCT/KR 2005/003318

## Continuation of first sheet

Continuation No. IV:

Text of the abstract

(Continuation of item 5 of the first sheet)

A condensing apparatus of a dish washer (100) is provided. The condensing apparatus includes a blower (210) and an air duct (200). The blower (210) suctions vapor form inside a tub (110) of the dish washer. The air duct (200) is connected to the blower (210), and has a vapor passage (207) formed therein through which the vapor flows and in which condensed water is formed. The vapor passage (207) has a ridge (203) formed thereon to stop the

#### ONAL SEARCH REPORT International application No. PCT/KR 2005/003318 CLASSIFICATION OF SUBJECT MATTER IPC7: A47L 15/48 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category\* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US5337500 A (ENOKIZONO) 16 August 1994 (16.08.1994) Y abstract, figure 1. 1, 2, 5, 7-10, 13, 15-17, 19, 20 DE19946456 A1 (BSH BOSCH SIEMENS HAUSGERAETE Y GMBH) 5 April 2001 (05.04.2001) 1, 2, 5, 7-10, 13, abstract, figures 1-5. 15-17, 19, 20 DE3538305 A1 (BOSCH-SIEMENS HAUSGERAETE GMBH) Y 30 April 1987 (30.04.1987) 1, 2, 7-10, 15abstract, figures 2, 3. 17, 20 Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: "I" later document published after the international filing date or document defining the general state of the art which is not considered to be of particular relevance priority date and not in conflict with the application but cited earlier application or patent but published on or after the international to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other an inventive step when the document is taken alone document of particular relevance; the claimed invention special reason (as specified) cannot be considered to involve an inventive step when the "O" document referring to an oral disclosure, use, exhibition or other document is combined with one or more other such document published prior to the international filing date but later than documents, such combination being obvious to a person the priority date claimed skilled in the art "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 30 December 2006 (30.12.2006) 13 January 2006 (13.01.2006) Name and mailing address of the ISA/AT

Authorized officer

BABUREK G.

Telephone No. +43 / 1 / 534 24 / 352

Facsimile No. +43 / 1 / 534 24 / 535

**Austrian Patent Office** 

Dresdner Straße 87, A-1200 Vienna

## INTERN. ONAL SEARCH REPORT

International application No. PCT/KR 2005/003318

Category*	TO BE RELEVANT	T/KR 2005/003318
	Citation of document, with indication, where appropriate, of the relevant passage	s Relevant to claim
Y	DE10023346 A1 (DIEHL AKO STIFTUNG GMBH & CO) 15 November 2001 (15.11.2001) abstract, figures 1-3.	5, 13, 19
Y	DE8026939 U1 (BOSCH-SIEMENS HAUSGERAETE GMBH) 18 March 1982 (18.03.1982) figure 2.	5, 13
	•	
1		

## INTERNATION SEARCH REPORT Information on patent family members

Int ional application No. PCI/KR 2005/003318

	rate: in	nt document cited search report	Publication date		Pa	itent family nember(s)	R 2005/003318
DE DE	A1	19946456	2001-04-05	US PL ES WO EP DE	A1 A1 T3 A2 A2 D1	2003140517 361313 2225535T 0185003 1284627 50103120D	2003-07-3 2004-10-0 2005-03-1 2001-11-15 2003-02-26 2004-09-05
	A1	3538305	1987-04-30	FR	A1	none 2589056	
DE	A	8026939U1				2203038	1987-04-30
บร	A	5337500	1994-08-16	GB JP	A A	none 2263969 5211978	1993-08-11 1993-08-24

## PATENT COOPERATION TREATY

To: HAW, YONG-NOKE 8th FI., Songchon Bldg.,642-15 Yoksam- dong Kangnam-gu, Seoul 135-080 Republik of Korea		PCT  WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
				Date of mailing 1: (day/month/year)	3 January 2006 (13.01.2006)	
Applicant's or agent's file reference 05FLWW114		FOR FURTHER ACTION See paragraph 2 below				
International application No. International film PCT/KR 2005/003318 6 October 2		g d 20(	ate (day/month/year) 05 (06.10.2005)	Priority Date (day/month/year) 12 October 2004 (12.10.2004)		
International Patent Classification (IPC) or both national class		sification and IPC 447L 15/48				
Applicant						
LG ELECTRONICS INC.						
Cont. No. I  Cont. No. II  Cont. No. III  Cont. No. IV  Cont. No. V  Cont. No. VI  Cont. No. VI	Priority  Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  Lack of unity of invention  Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  Certain documents cited  Certain defects in the international application					
Cont. No. VIII	Certain observa	tions on the internat	tior	nal application		
2. FURTHER ACTION						
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Name and mailing addres  Austria	s of the ISA/ AT		_	Authorized officer	BABUREK G.	
Dresdner Straße 87, A-1200 Vienna				DABUKEN G.		
Facsimile No. +43 / 1 / 534 24 / 535			Telephone No. +43	/1/534 24 / 352		

#### N OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR 2005/003318

#### Continuation No. I

#### Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed.

#### Continuation No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1	St	a	te	m	e	n	1

Novelty (N)	Claims 1-20 Claims	YES NO
Inventive step (IS)	Claims 3, 4, 6, 11, 12, 14, 18 Claims 1, 2, 5, 7-10, 13, 15-17, 19, 20	YES
Industrial applicability (IA)	Claims 1-20 Claims	YES

#### 2. Citations and explanations:

The following documents have been cited in the Search Report:

D1: US5337500 A D2: DE19946456 A1 D3: DE3538305 A1 D4: DE10023346 A1 D5: DE8026939 U1

Documents D1 and D2 disclose a condensing apparatus of a dishwasher for condensing vapour inside a dish washer tub comprising a blower for suctioning the vapour from inside the tub and an air duct connected to the blower and forming a vapour passage for circulating the vapour and generating condensed water, according to the characteristic features of claims 1, 9 and 16.

Document D3 discloses a condensing apparatus of a dishwasher comprising a vapour passage including a ridge formed thereon for stopping the condensed water according to claims 1, 9 and 16.

For a man skilled in the art it is obvious to combine one of the documents D1 and D2 with document D3. Therefore the subject matter of claims 1, 9 and 16 is novel with respect to each

Form PCT/ISA/237 (continuation (0)) (January 2004)

## WRIT'. OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR 2005/003318

one of the documents D1 - D3, but does not involve an inventive step according to a combination of either D1 or D2 with D3.

Document D3 further discloses a condensing apparatus comprising a vapour passage forming a meander line according to claims 2, 10 and 17.

Documents D1 and D2 also show a condenser fan and a dryer fan according to the features of claims 7 and 15, which are driven together by a single motor according to claims 8 and 20.

Therefore the subject matter of claims 2, 10 and 17, respectively 7, 8, 15 and 20 is novel with respect to each one of the documents D1 - D3, but does not involve an inventive step according to a combination of either D1 or D2 with D3.

Documents D4 and D5 further disclose a condensing apparatus wherein the air duct includes a condensed water discharge port and a split type vapour exhaust port, according to claims 5 and 13. D4 also shows that the condensed water discharge port is lower than the vapour exhaust port, according to claim 19.

Therefore the subject matter of claims 5, 13 and 19 is novel with respect to each one of the documents D1 - D5, but does not involve an inventive step according to a combination of either D1 or D2 with document D4, respectively D5.

Consequently it has to be considered that only the subject matter of claims 3, 4, 6, 11, 12, 14 and 18 is novel with respect to each one of the prior art documents and also involves an inventive step according to these documents.

Industrial applicability is given.

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